

**PATENT**

Atty Docket No.: 10980251-1  
App. Ser. No.: 09/483,183

**IN THE CLAIMS:**

*Please find below a listing of all of the pending claims. The statuses of the claims are set forth in parentheses.*

1. (Currently Amended) A method of using a printer to print a an-encrypted document stored on a server, the server being connected to a network, the method comprising:

placing an order for the ~~encrypted~~ document to be distributed to the printer;

establishing a connection between the server and the printer to which the ~~encrypted~~ document will be distributed, after the order is placed;

using a smart card to give an identity to the printer within a predetermined amount of time of the establishing of the connection, the printer not having the identity until the identity is given, wherein the identity includes at least one cryptographic key contained on the smart card; and

wherein the server times out, the server closes the connection established with the printer, and the server cancels the placed order if the smart card fails to give the identity to the printer within the predetermined amount of time and if the smart card gives the identity to the printer within the predetermined amount of time, the order for the document is further processed by:

using the printer and the at least one cryptographic key to establish the printer identity with the server in response to the smart card giving the identity to the printer within the predetermined amount of time, wherein the server encrypts the document and transmits the encrypted document to the printer via the network;

using the printer to receive the encrypted document from the network;

**PATENT**

Atty Docket No.: 10980251-1  
App. Ser. No.: 09/483,183

using the printer to decrypt the encrypted document; and  
using the printer to print the decrypted document.

2. (Original) The method of claim 1, wherein the encrypted document includes a message indicating a number of copies to be printed; and wherein the printer prints the number of document copies indicated in the message.
3. (Previously Presented) The method of claim 1, wherein the printer includes a smart card reader; and wherein the printer identity is established by inserting a smart card into the reader and transferring the identity of the smart card to the printer at the time of document distribution.
4. (Original) The method of claim 3, wherein the smart card is used to perform the decryption.
5. (Original) The method of claim 1, wherein the printer includes an embedded processor, and wherein the embedded processor is used to perform the decryption.
6. (Original) The method of claim 1, further comprising the step of ordering the document prior to establishing the printer identity.
7. (Original) The method of claim 6, wherein the printer is used to order the document.

**PATENT**

Atty Docket No.: 10980251-1  
App. Ser. No.: 09/483,183

8. (Original) The method of claim 6, further comprising the step of previewing at least one low quality document prior to ordering the document.

9. (Original) The method of claim 1, further comprising the step of using at least one cryptographic key to authenticate the printer prior to ordering the document.

10. (Original) The method of claim 1, wherein the printer is used to render the decrypted document.

11. (Currently Amended) A method of using a printer to distribute a an-encrypted document stored on a server, the method comprising:

placing an order for the ~~encrypted~~ document to be distributed to the printer;

establishing a connection between the server and the printer to which the ~~encrypted~~ document will be distributed, after the order is placed;

using the printer and at least one cryptographic key to establish a printer identity with the server within a predetermined time of the establishing of the connection, wherein the server times out, the server closes the connection established with the printer, and the server cancels the placed order if the printer fails to give the printer identity to the server within the predetermined amount of time and if the printer gives the printer identity to the server within the predetermined amount of time the server encrypts the document and transmits the encrypted document to the printer via a network and the order for the document is further processed by:

using the printer to receive the encrypted document from the server;

## PATENT

Atty Docket No.: 10980251-1  
App. Scr. No.: 09/483,183

using the printer to decrypt the encrypted document;  
using the printer to print the decrypted document; and  
using the printer to indicate status of the printing so that the server can charge for  
copies that were actually printed, wherein the printer sends back a status acknowledgement to  
the server.

12. (Currently Amended) A system for the distributed printing of encrypted documents over  
a computer network, the system comprising:

a server connected to the network, the encrypted documents being stored on the  
server, wherein the server is operable to establish a connection with a printer;

a client machine connected to the network for placing a an-encrypted document order  
and identifying the printer to which the encrypted documents will be distributed to allow the  
server to establish a connection with the printer after the encrypted document order is placed;

the printer connected to the network, the printer being programmed to receive at least  
one cryptographic key after the encrypted document order has been placed and use said at  
least one key to establish a printer identity, and then to establish the printer identity with the  
server via the network, within a predetermined amount of time of the server establishing the  
connection with the printer;

the server being programmed to encrypt at least one of the documents and to send the  
at least one encrypted document to the printer via a network after the encrypted document  
order has been placed and the printer identity has been established, wherein the server times  
out, the server closes the connection established with the printer, and the server cancels the  
encrypted document order if the printer fails to give the printer identity to the server within

## PATENT

Atty Docket No.: 10980251-1

App. Ser. No.: 09/483,183

the predetermined amount of time and if the printer gives the printer identity to the server within the predetermined amount of time, the server does not time out, does not close the connection established with the printer, and does not cancel the document order;

the printer being further programmed to retrieve the at least one encrypted document, decrypt the retrieved at least one encrypted document, and print the decrypted document according to the document order.

13. (Original) The system of claim 12, further comprising a client for placing the document order.

14. (Original) The system of claim 13, wherein the server stores low quality documents for customer preview.

15. (Original) The system of claim 12, further comprising a smart card for providing at least one cryptographic key to the printer and for performing the decryption, the smart card passing the decrypted document to the printer.

16. (Original) The system of claim 12, further comprising a smart card for providing at least one cryptographic key to the printer; and wherein the printer includes an embedded processor for using at least one cryptographic key to perform the decryption.

17. (Original) The system of claim 12, wherein the printer is further programmed to indicate status of the printing so that the server can charge for copies that were actually printed.

**PATENT**

Atty Docket No.: 10980251-1  
App. Scr. No.: 09/483,183

18. (Currently Amended) A network printer comprising:

means for establishing a connection with a remote site over a network, wherein the remote site includes a server storing ~~a~~ an encrypted document, and wherein the connection is established after an order for the encrypted document is placed;

means for reading at least one decryption key from a smart card;

means for using the at least one decryption key to establish a printer identity, wherein the printer identity includes at least one cryptographic key contained on the smart card;

means for communicating the printer identity to the server within a predetermined amount of time of establishing the connection with the remote site, wherein the server times out, the server cancels the order for the encrypted document, and the server closes the connection established with the network printer if the network printer fails to give the printer identity to the server within the predetermined amount of time, and if the printer gives the printer identity to the server within the predetermined amount of time the server does not time out, does not cancel the order for the document, and does not close the connection established with the network printer to allow the server to encrypt the document and transmit the encrypted document to the network printer;

means for receiving an encrypted token from the remote site;

means for using a decryption key to decrypt the token; and

means for sending the decrypted token to the remote site.

19. (Currently Amended) A network printer that can communicate with a document server, the printer comprising:

a smart card reader;

**PATENT**

Atty Docket No.: 10980251-1  
App. Scr. No.: 09/483,183

a network interface for receiving a print order for a an-encrypted document and for establishing a network connection with the document server after the print order is received, wherein the document server stores encrypted documents;

a processor; and

memory for storing a program that, when executed, causes the processor to use the smart card reader to read a cryptographic key from a smart card,

use the cryptographic key to create an identity for the printer;

use the network interface to establish the identity with the document server within a predetermined amount of time of establishing the network connection with the document server, wherein the document server times out, the document server closes the connection established with the network printer, and the document server cancels the print order for the encrypted document if the identity is not established within the predetermined amount of time and if the identity is established within the predetermined amount of time, the processor is further configured to,

use the network interface to receive the document, which has been encrypted by the document server and transmitted to the network printer via a network an-encrypted document,

decrypt the encrypted document, and

print the decrypted document.

20. (Original) The printer of claim 19, further comprising a keypad and display; wherein the program further causes the processor to receive a document order from the keypad.

**PATENT**

Atty Docket No.: 10980251-1  
App. Ser. No.: 09/483,183

21. (Previously Presented) The printer of claim 19, wherein the program further causes the processor to send printing status to the network interface so that the server can charge for copies that were actually printed, wherein the printer sends back a status acknowledgement to the server.
22. (Original) The printer of claim 19, wherein the program further causes the processor to parse a message from the decrypted document, the message indicating a number of ordered copies, and wherein the program further causes the processor to print the ordered number of copies of the decrypted document.
23. (Original) The printer of claim 19, wherein the program further causes the processor to render the decrypted document.
24. (Previously Presented) The printer of claim 18, further comprising:  
means for receiving an encrypted document from the network;  
means for using a decryption key to decrypt the document; and  
means for printing the decrypted document.
25. (Currently Amended) A server storing a ~~an~~ encrypted document comprising:  
means for receiving a print order for the encrypted document;  
means for establishing a connection with a remote network printer after receiving the print order;  
means for receiving a message identifying the remote network printer;



**PATENT**

Atty Docket No.: 10980251-1  
App. Ser. No.: 09/483,183

means for receiving a cryptographic key from the remote network printer within a predetermined amount of time of establishing the connection with the remote network printer;

means for encrypting the document using the cryptographic key received from the network printer;

means for closing the connection established with the remote network printer and canceling the print order for the encrypted document if the server fails to receive the cryptographic key from the remote network printer within the predetermined amount of time, and if the server receives the cryptographic key from the remote network printer within the predetermined amount of time, not closing the connection established with the remote network printer and not canceling the print order for the document;

means for encrypting a token with the key;

means for sending the encrypted token to the remote network printer;

means for determining whether the remote network printer was able to decrypt the token; and

means for sending encrypted information directly to the remote network printer via a network if the remote network printer was able to decrypt the token.

26. (Previously Presented) The method of claim 1, wherein using the printer and at least one cryptographic key to establish the printer identity with the server includes:

using an encryption key to establish a printer identity;

receiving an encrypted token from the server;

**PATENT**

Atty Docket No.: 10980251-1  
App. Ser. No.: 09/483,183

using a decryption key to decrypt the token; and  
sending the decrypted token to a remote site.

27. (Previously Presented) The method of claim 11, wherein using the printer and at least one cryptographic key to establish a printer identity with the server includes:

using an encryption key to establish a printer identity;  
receiving an encrypted token from the server;  
using a decryption key to decrypt the token; and  
sending the decrypted token to a remote site.

28. (Previously Presented) The system of claim 12, wherein the printer establishes the printer identity with the server by using the at least one decryption key to establish a printer identity; receiving an encrypted token from the server; using a decryption key to decrypt the token; and sending the decrypted token to the server.

29. (Previously Presented) The printer of claim 19, wherein using the network interface to establish the identity with the server includes receiving an encrypted token from the server; using a decryption key to decrypt the token; and sending the decrypted token to the server.

30-31. (Canceled).